Venkata Pradeep Reddy Venuthurla

Ph:+16232730305 | vvenuth1@asu.edu | linkedin.com/in/pradeepreddyvv | github.com/pradeepreddyvv | leetcode.com

Education

Arizona State University, Tempe *August 2025 – Expected December 2026*
Master of Science, Computer Science

PES University *August 2019 – May 2023*
Bachelor of Technology in Computer Science and Engineering CGPA: 3.43/4.0

Technical Skills

Languages: Python, Java, JavaScript/TypeScript, C/C++, Golang, Ruby, SQL, HTML/DOM, Postman, Bash, React, OpenAPI, Linux/Unix, Docker, Kubernetes, Redis, Elasticsearch, SQL, Kafka, Spark, Postgres, TensorFlow, PyTorch, OpenCV.
Technologies: Spring Boot, Reactjs, Flask, MuleSoft, DynamoDB, Hadoop, Scala, GCP, AWS, Gradle/Maven.
Courses: Algorithms and Data structures, Web development, Operating System, Discrete Mathematics, Cloud Computing, Software Design Patterns, Distributed Database Systems, Statistical Machine Learning,Deep Learning.

Work Experience

IDFC First Bank | ***Software Engineer****, API Integration Team* *July 2023 – July 2025*

- Engineered **Partner Developer Portal** enabling fintech partners (Amazon Pay, Cred, Flipkart) to explore, test, and integrate APIs; delivered Swagger-based simulations, real-time validation, and sandbox testing, reducing partner onboarding time by **60%**.
- Architected **API Inventory Platform (manages 7000 Endpoints/1500 APIs)** for API lifecycle and compliance management; improved developer efficiency by **60%** and reduced RBI compliance delays by **40%** via advanced search and metadata workflow automation (Full Stack Development).
- Enhanced **Digital Lending APIs** on MuleSoft, scaling to **100+ TPS** for Aadhaar OTP and CKYC flows, improving onboarding performance and regulatory compliance.
- Led **infrastructure modernization**, On Premise to AWS migration, MySQL to Oracle transition, disaster recovery upgrades, increasing availability and reliability while reducing infra costs by **50%**.

IDFC First Bank | ***Application Engineer Intern****, API Integration Team* *February 2023 – June 2023*

- Built APIs for collections app, **reducing manual data retrieval by 30%**.
- Created JLG (Joint Liability Group) APIs enabling field agents to access overdue amounts, customer assignments, and batch details from Salesforce (SFDC), improving operational efficiency and **turnaround time by 25%**.

Arternal | ***Computer Vision Engineer Intern****, Computer Vision Team* *May 2021 – October 2021*

- Optimized **fruit-harvesting robot vision models**, boosting disease classification and fruit detection accuracy to 91% while reducing inference time by 20%, enabling real-time field deployment.
- Delivered **end-to-end ML workflows**, data collection, preprocessing, annotation, model training, hyperparameter tuning, and deployment, accelerating experimentation cycles by 30%.

Academic Projects

BuildMyWeb (Image to HTML code) | *Github Link* *August 2021 – December 2021*

- Developed a CV pipeline converting hand-drawn wireframes into HTML/CSS using OpenCV and a custom TensorFlow CNN + CTC (Connectionist Temporal Classification) model, achieving 95% text recognition accuracy.
- Created React-based editor for real-time UI customization, delivering downloadable templates that cut prototyping time by 30% and reduced manual redesign effort by 40%.

Publications & Achievements

Smart Driving Assistance | *Springer Nature (ICCSST) Link* | *Github Link* *January 2022 – February 2023*

- Co-authored and presented research on a driver assistance system featuring lane detection with **lane structural loss functions for curvature prediction**, achieving **95%+ real-time reliability**.
- Trained YOLO + CNN models on the **GTSRB dataset**, reaching **90%+ accuracy across 43 traffic sign categories**, integrated voice alerts to improve driver response time by **20%**, and optimized multi-threaded pipelines (30+ FPS) reducing false alarms by **25%**.

Competitive Programming | *CodeChef Link* *January 2022 – February 2023*

- Achieved **Global Rank 22/3200** in CodeChef April Long Challenge among 3,200+ participants.